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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,692	07/27/2006	Segen Farid Estefen	10008.011	7041
<div>7590 Fildes & Outland 20916 Mack Avenue, Ste. 2 Grosse Pointe Woods, MI 48236</div>			<div>EXAMINER JETTON, CHRISTOPHER M</div>	
			<div>ART UNIT 3748</div>	<div>PAPER NUMBER</div>
			<div>MAIL DATE 07/29/2010</div>	<div>DELIVERY MODE PAPER</div>

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/587,692	Applicant(s) ESTEFEN ET AL.	
	Examiner CHRISTOPHER JETTON	Art Unit 3748	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 July 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters “A, B, C, D, and E” have been used to designate multiple parts. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 7 and 8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the

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invention. The specification provides no structural or functional detail as to how the “moveable claws co-operable with said outflow adjustment needle” are constructed or operated.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Burton (US 4,931,662)**.

Regarding claim 5, Burton (Fig 1-3) discloses a wave energy plant for electricity generation, said plant comprising: a fixed structure (10); a float (54); a generally horizontally disposed mechanical arm (44) having an end connected to said float (54); said mechanical arm (44) having an opposite end articulately connected (40) to said fixed structure (10); a hydraulic pump (42) for pumping fluid, said hydraulic pump (42) being actuated by said mechanical arm (44); a hyperbaric chamber (130) having an inlet in fluid communication with said hydraulic pump (42) and an outlet, said hyperbaric chamber (130) storing pressurized fluid delivered by said hydraulic pump (42); a turbine (124) in fluid communication with said hyperbaric chamber outlet; an electric generator (126) connected to said turbine; whereby pressurized water is supplied to said turbine

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through said hyperbaric chamber outlet to drive said turbine and to generate electricity (Col 4 Lines 12-65). Burton fails to disclose pumping water.

However, Burton teaches a wave energy plant comprising a hydraulic pump for pumping water and a hydraulic turbine powered by the pressurized water (Col 1 Lines 10-19).

It would have been obvious to one of ordinary skill in the art to modify Burton's invention with water as the hydraulic fluid since a method of enhancing a particular class of devices has been made part of the ordinary capabilities of one skilled in the art based upon the teaching of such improvement in other situations.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Burton (US 4,931,662) in view Berg (US 4,792,290)**.

Regarding claim 6, Burton fails to disclose the hyperbaric chamber contains a mixture including water and air.

However, Berg discloses the hyperbaric chamber (56) contains a mixture including water and air (Col 7 Lines 34-38).

It would have been obvious to modify Burton's invention with water and air mixture taught by Berg since a particular known technique was recognized as part of the ordinary capabilities of one skilled in the art. One of ordinary skill would have been capable of applying this known technique to a known device that was ready for improvement and the results would have been predictable.

Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Burton (US 4,931,662) in view Gillis, Jr et al (US 3,521,853)**.

Regarding claims 7 and 8, Burton (Fig 3) discloses an outflow regulating valve connected to the hyperbaric chamber outlet, but fails to disclose the structural detail as claimed.

However, Gillis teaches a regulating valve with outflow adjustment needle (24) and a valve distance adjustment ring (20) disposed around said main body.

The figures of Burton's invention depict a valve located between the hyperbaric chamber and the hydroelectric generator but little detail is provided. One having ordinary skill in the art, however, would be able to identify the function of this valve and ascertain the requirements to be satisfied to ensure proper flow of pressurized water to the hydroelectric generator. Further, it appears that the invention would perform equally well with Gillis' valve since Applicants have not disclosed that their outflow regulating valve solves any nonobvious stated problem or is for any particularly unknown purpose and.

It would have been obvious to one of ordinary skill in the art to modify Burton's invention with the regulating valve taught by Gillis since all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination yielded nothing more than predictable results.

Response to Arguments

Applicant's arguments with respect to the 112 rejection of claims 7 and 8 are not persuasive. It is maintained that the specification does not describe the "moveable claws co-operable with said outflow adjustment needle" in such a way as to enable one skilled in the art to make and/or use the invention without extensive experimentation.

37 CFR 1.71 states the following:

(a) The specification must include a written description of the invention or discovery and of the manner and process of making and using the same, and is required to be in such full, clear, concise, and exact terms as to enable any person skilled in the art or science to which the invention or discovery appertains, or with which it is most nearly connected, to make and use the same.

(c) In the case of an improvement, the specification must particularly point out the part or parts of the process, machine, manufacture, or composition of matter to which the improvement relates, and the description should be confined to the specific improvement and to such parts as necessarily cooperate with it or as may be necessary to a complete understanding or description of it.

The drawings do not offer a complete view of the claws since in Figures 2 and 3 the lower portion is cut off. The drawings also fail to show how the claws are moveably co-operable with the outflow adjustment needle.

Applicant's arguments with respect to claims 5-8 have been considered but are moot in view of the new grounds of rejection. The new rejection discloses a wave energy plant with a fixed structure.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER JETTON whose telephone number is

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(571)270-7108. The examiner can normally be reached on Monday through Friday, 7:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be reached on (571)272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas E. Denion/
Supervisory Patent Examiner, Art Unit 3748

/CHRISTOPHER JETTON/
Examiner, Art Unit 3748